AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

LISTING OF CLAIMS:

- 1. (withdrawn) An isolated polynucleotide encoding equine laminin γ2.
- 2. (withdrawn) An isolated polynucleotide as defined in claim 1, which is RNA.
- 3. (withdrawn) An isolated polynucleotide as defined in claim 1, which is DNA.
- 4. (withdrawn) An isolated polynucleotide as defined in claim 1, comprising the nucleic acid sequence of nucleotides 1-3567 of SEQ ID No:1.
- 5. (withdrawn) An isolated polynucleotide as defined in claim 1, which encodes laminin γ2.

having the amino acid sequence of 1-1190 of SEQ ID No:2.

- 6. (withdrawn) Equine laminin γ2 in a form essentially free from other proteins of mammalian origin.
- 7. (withdrawn) Equine laminin γ2, having the amino acid sequence of SEQ 1D No.2.
- 8. (withdrawn) Equine laminin γ 2, that is encoded by a polynucleotide having the nucleotide sequence of nucleotides 1-3567 of SEQ ID No:1.
- 9. (withdrawn) A recombinant DNA construct incorporating the polynucleotide of claim 1.
- 10. (withdrawn) A cell having incorporated expressibly therein a construct as defined in claim 9.

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- (withdrawn) A process for obtaining a substantially homogeneous source of equine laminin γ^2 , comprising the steps of culturing cells having incorporated expressibly therein a polynucleotide as defined in claim 1, and then recovering the equine laminin γ^2 therefrom.
- 12. (currently amended) A method of diagnosing epidermotysis bullosa in a horse comprising the steps of:
 - 1) obtaining a biological sample from the horse;
 - isolating nucleic acid therefrom and amplifying laminin γ2-encoding nucleic acid using appropriate sense and antisense primers; and
 - 3) analysing the amplified nucleic acid to identify the presence of mutated laminin γ2-encoding nucleic acid having a cytosine insert at position 1368, wherein the homozygous presence of said mutated laminin γ2-encoding nucleic acid indicates a diagnosis of epidermolysis bullosa.
- 13. (currently amended) A method as defined in claim 12, wherein the <u>sense</u> primers used to amplify the laminin γ2-encoding nucleic acid wore (sense) comprises the <u>nucleotide sequence</u>. 5'-TGTTACTCAGGGGATGAGAA-3' (SEQ ID No: 29) and <u>the</u>(antisense) primer comprises the <u>nucleotide sequence</u>, 5'-CTGGGGGCAGTTATTGCAC-3' (SEQ ID No: 30).

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- 14. (original) A method as defined in claim 12, wherein the amplified nucleic acid is chromatographically analysed to identify the homozygous presence of the mutated laminin γ2-encoding nucleic acid.
- 15. (withdrav@n) A kit for diagnosing epidermolysis bullosa in horses comprising the nucleic acid primers 5'-TGTTACTCAGGGGATGAGAA-3' (SEQ ID No: 29) and (antisense) 5'-CTGGGGGCAGTTATTGCAC-3' (SEQ ID No: 30).
- 16. (withdrawn) A monoclonal or polyclonal antibody directed against equine laminin
 γ2
- 17. (withdrawn) A method of diagnosing IEB in a horse comprising:
 - 1) obtaining a biological sample from a horse;
 - 2) isolating the protein component from the sample; and
 - screening the sample for laminin γ2 peptide, wherein absence of laminin
 γ2 peptide in the sample is indicative of JEB.
- 18. (withdrawn) A method as defined in claim 17, wherein the sample is screened with an antibody directed against equine laminin γ 2.
- 19. (original) A method as defined in claim 12, wherein the sample is obtained from an unborn foal.
- 20. (withdrawn) A method as defined in claim 17, wherein the sample is obtained from an unborn foal.